

## Product datasheet for **RR216815**

### **Nsmf (NM\_001270626) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nsmf (NM_001270626) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nsmf
Synonyms:	Jac; Jacob; Nelf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216815 representing NM\_001270626  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTAGCGGCCAAAGTAA  
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCAGAGTACCCTGAGAACCGCAACGGTGCAGACCCT  
 GCTGGCCGACGCCTACTCTGGCCACGAAGGTTCCCCAGAGATGCAGCCTGCACCCACAACAAGCGCCGC  
 CTCTCCCTCGTCTCCAATGGCCGCTATGAGGGCAGCATCTCAGATGAGGCAGTCAGCGGGAAGACGGCTA  
 CAGAGGGCCCCAGCCCCGTGTGTACACCATCTCTAGAGAGCCAGCCCTGCTGCCGCTGAAGCCGA  
 AGCCATTGAGCTAGCAGTGGTAAAGGGAGGAGGCAGCGGGAGCGGCACCCTCACCACCAGCCAGCCC  
 CTGCGCGCCAGCCAGGCAGCAGCCGTGAGGACATCAGCAGGCCCTGCCAAAGCTGGGCAGGAAGCCGCC  
 AGGGCTCAAAGAATGCCCGGATGTGCCAGCTGGTCCCTGGTCCCTCCCTCGGGCTTCGGGTTGGA  
 ACAGCCACCTCTACCTGAGGCTTCGGCCGCTACAAGAAGCTGGAAAGGATGTATAGTGTGATGGAGTG  
 TCTGATGACGTCCCATCCGTACCTGGTCCCAAGGAAAACCCCTTCAGCTTCCAGACGGCAACCAAA  
 CTATGCAAGCCATCTCGAACTCCGCAACACCTGCGCATGGTTGGCAGTCGGCGGGTGAAGGCCAGAC  
 GTTCGCTGAGCGGCGCAACGGAGCTTACGCGGTCTGGAGCGACCCCAACCCCTATGAAAGCCGACACC  
 TCCCACGACTCCCGAGACAGCAGTGACCTACAGAGCTCACACTGCACCCTGGATGAGGCTTGTGAGGACC  
 TGGACTGGGACACAGAGAAAGCCCTGGAGGCCACGGCCTGCGACTGAGGGCTTCTTCCACCCAAAGGT  
 CATGCTAATCTCTCCAAGGTGCCAAGGCCGAGTACATCCCAACCATCATCCGAGAGACGACCCATCC  
 ATCATCCCATCTCTATGACCATGAGCAGCAACGTTTCGAGGACATCCTGGAGGAAATAGAGAAGAAGT  
 TGAACATCTATCAAGGGGGCCAAGATCTGGAAGATGCTGATTTTCTGCCAGGGCGCCCTGGCCACT  
 TTTATTTGCTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGAGAAAGGAAGGACATGATCCACTTCTGG  
 AAGAGGCTGAGCCGTCTGATGAGCAAAGTGAACCTGAGCAAATGTCATCCACATCATGGGCTGTACA  
 TCCTGGGGAACCTAACGGGGAGAAGCTATTCCAGAACCTCAGGACCCTCATGACCCCTACAAGTTAC  
 CTTTGAGTCGCCCTGGAGCTCTGCCCCAAGGGAAGCAAATGATTGAGACCTACTTTGATTTCCGGCTG  
 TACCGCTGTGAAAAGCCGCCAGCACTCAAAGCTGCTGGACTTTGATGACGTCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216815 representing NM\_001270626  
 Red=Cloning site Green=Tags(s)

MGAAASRRRALRSEAMSSVAAKVRARAFGEYLSQSHPENRNGADHLLADAYSGHEGSPMQPAPHNKRR  
 LSLVSNGRYEGSISDEAVSGKTATEGPQPRVYTI SREPALLPGSEAEI ELAVVKRRRQRERHPHHHSQP  
 LRASPGSSREDISRPCQSWAGSRQGSKECPGCAQLVPGSPRAFLEQPPLPEASGRHKLERMYSVDGV  
 SDDVPIRTWFPKENPFSQTATTTMQAISNFRKHLRMVGSRRVKAQTF AERRERSFSRSWSDPTPMKADT  
 SHDSRSDSLQSSHCTLDEACEDLDWDTEKLEATACDTEGFLPPKVMLISSKVPKAEYIPTIIRDDPS  
 IIPILYDHEHATFEDILEEIEKKLNIYHKGAKIWKMLIFCQGGPGHLYLLKNKVATFAKVEKEEDMIHFW  
 KRLSRLMSKVNPEPNVIHIMGCYILGNPNGEKLFQNLRTLMPYKVT FESPLELSAQGQMIETYDFDRL  
 YRLWKSQRQHSKLLDFDDVL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001270626

ORF Size: 1527 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001270626.1](#), [NP\\_001257555.1](#)

RefSeq Size: 2854 bp

RefSeq ORF: 1530 bp

Locus ID: 117536

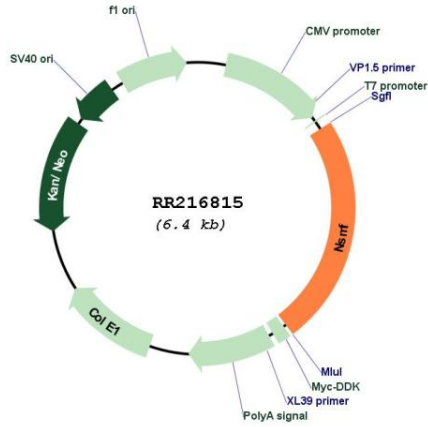
UniProt ID: [Q9EPI6](#)

Cytogenetics: 3p13

MW: 57.5 kDa

Gene Summary: mouse homolog acts as a guidance molecule for olfactory axon projections and is involved in the neurophilic migration of LHRH cells [RGD, Feb 2006]

**Product images:**



Circular map for RR216815